#### PATENT COOPERATION TREATY

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## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference A4-323PCT	FOR FURTHER ACT	ION s	ee Form PCT/IPEA/416				
International application No. International filing date (da PCT/US2005/000694 10.01.2005		y/month/year)	Priority date (day/month/year 09.01.2004	יט			
International Patent Classification (IPC) or national classification and IPC							
INV. H01R12/32							
Applicant MOLEX INCORPORATED et al.							
<ol> <li>This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</li> </ol>							
3. This report is also accompanied	by ANNEXES, comprising		- o follower				
a. 🛭 sent to the applicant and	to the International Bureau	i) a total of 2 sneets,	as lollows. conded and are the basis (	of this report			
and/or sheets contain Administrative Instruc	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the							
The state of the s	Supplemental Box.  b. \( \sum \) (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a						
listing and/or to	sequence listing and/or tables related thereto, in celectronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
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4. This report contains indications	relating to the following ite	ms:					
☐ Box No. I Basis of the re	⊠ Box No. I Basis of the report						
☐ Box No. II Priority							
☐ Box No. III Non-establish	☐ Box No. III Non-establishment of opinion with regar		rd to novelty, inventive step and industrial applicability				
☐ Box No. IV Lack of unity of	of invention						
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				al			
☐ Box No. VI Certain docur							
	☐ Box No. VII Certain defects in the international application						
☐ Box No. VIII Certain obser	☐ Box No. VIII Certain observations on the international application						
Date of submission of the demand		Date of completion of th	is report				
04.08.2005		31.03.2006					
Name and mailing address of the international preliminary examining authority:		Authorized officer					
European Patent Office - G	Stirn, J-P		S James D. S S S S S S S S				
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## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US2005/000694

	Box No. I	Basis of the report				
1.	With regard	n regard to the <b>language</b> , this report is based on the international application in the language in which it was d, unless otherwise indicated under this item.				
	which □ inte □ put	port is based on translations from the original language into the following language, is the language of a translation furnished for the purposes of:  Innational search (under Rules 12.3 and 23.1(b))  Ilication of the international application (under Rule 12.4)  Innational preliminary examination (under Rules 55.2 and/or 55.3)				
2.	have been	d to the <b>elements</b> * of the international application, this report is based on <i>(replacement sheets which furnished to the receiving Office in response to an invitation under Article 14 are referred to in this originally filed" and are not annexed to this report):</i>				
	Description	ı, Pages				
	1-6	as originally filed				
	Claims, Nu	mbers				
	9	as originally filed				
	1-8	filed with telefax on 04.08.2005				
	Drawings,	Sheets				
	1/5-5/5	as originally filed				
	□ a seq	uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing				
3	☐ the ☐ the ☐ the	mendments have resulted in the cancellation of: e description, pages e claims, Nos. e drawings, sheets/figs e sequence listing (specify): by table(s) related to sequence listing (specify):				
4	had not be Suppleme □ th □ th □ th □ th □ th	report has been established as if (some of) the amendments annexed to this report and listed below seen made, since they have been considered to go beyond the disclosure as filed, as indicated in the ental Box (Rule 70.2(c)).  e description, pages e claims, Nos.  e drawings, sheets/figs e sequence listing (specify):  ny table(s) related to sequence listing (specify):  tem 4 applies, some or all of these sheets may be marked "superseded."				
	* TF i	tem A applies. Some or all of these sheets may be marked superseded.				

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US2005/000694

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-8

No:

Claims

Claims

Inventive step (IS)

Yes: Claims

1-8

No:

Industrial applicability (IA)

Yes: Claims

s 1-8

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document:

D1: US-B-6623277

2. The document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and shows (the references in parentheses applying to this document): a board mounted power connector (100) comprising an insulating shell (2), an acommodating cavity (3) and an engaging member (211); a first terminal (9) including a contact part (91) and a second terminal (5). (see figure 2; column 3, line 17 - 46)

The subject-matter of claim 1 differs from this known document D1 in that the second terminal includes a metal housing with an underside adapted to be soldered to a circuit board. The second terminal further includes a first resilient arm extending from the metal housing into an accommodating cavity of the insulating shell.

The subject-matter of claim 1 is therefore new (Article 33(2) PCT).

- 3. The problem to be solved by the present invention may be regarded as how to improve the mounting of a metal housing onto an insulative shell.
- 4. The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

The metal housing includes an engaging arm formed on a side wall and adapted to engage the engaging member of the insulative shell when the second terminal is secured in a final position over the insulative shell.

- Claims 2-8 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.
- 6. Claims 1-8 are industrially applicable (Article 33(4) PCT).